

## Abstract

A framework for connectivity verification is provided. The framework includes a connectivity verification server performing unattended connectivity verification, and a connectivity verification application, both the connectivity verification server and  
5 connectivity verification application operating in a network management context. Connectivity verification jobs are defined via the connectivity verification application and the connectivity verification server is configured accordingly. Connectivity verification jobs can also be scheduled. The connectivity verification application also provides a display of connectivity verification results. The results of each connectivity  
10 verification job may be compared against a desired connectivity profile and deviations from the connectivity profile being used to raise alarms. Connectivity verification results, including alarm information, are further used to highlight displayed managed communications network entities on a network map displaying selected connectivity verification results. The advantages are derived from using the connectivity verification  
15 framework to automate connectivity verification testing at reduced operational costs.